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APPLICATION NO.	FIL	JING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/829,557	329,557 04/22/2004		Benjamin A. Knott	064198.0189 (LB1035)	6361
31625	7590	08/25/2006		EXAMINER	
BAKER BO PATENT DE		·	PATEL, HEMANT SHANTILAL		
		VD., SUITE 1500	ART UNIT	PAPER NUMBER	
AUSTIN, T	X 78701-	4039	2614		

DATE MAILED: 08/25/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

-			ation No.	Applicant(s)	Applicant(s)				
Office Action Summary			,557	KNOTT ET AL.	(NOTT ET AL.				
			ner	Art Unit					
		Heman	t Patel	2614					
Period fo	The MAILING DATE of this communic or Reply	ation appears on	the cover sheet	t with the correspondence ac	ldress				
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FO CHEVER IS LONGER, FROM THE MA nsions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commulous period for reply is specified above, the maximum stature to reply within the set or extended period for reply we reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	ALING DATE OF f 37 CFR 1.136(a). In no nication. utory period will apply and rill, by statute, cause the	THIS COMMU event, however, may d will expire SIX (6) N application to become	NICATION. y a reply be timely filed MONTHS from the mailing date of this ce BANDONED (35 U.S.C. § 133).					
Status									
1) 又	Responsive to communication(s) filed	on <i>20 June 2006</i>	3 .						
• —	This action is FINAL . 2b) This action is non-final.								
3)	Since this application is in condition for	or allowance exce	pt for formal m	atters, prosecution as to the	e merits is				
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposit	ion of Claims								
4)⊠	Claim(s) 1-22 is/are pending in the ap	plication.							
,—	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)	Claim(s) is/are allowed.								
6)⊠	Claim(s) <u>1-22</u> is/are rejected.								
7)	Claim(s) is/are objected to.								
8)□	Claim(s) are subject to restricti	ion and/or election	n requirement.						
Applicat	ion Papers								
9)[The specification is objected to by the	Examiner.							
10)	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
	Applicant may not request that any object	tion to the drawing(s	s) be held in abe	yance. See 37 CFR 1.85(a).					
	Replacement drawing sheet(s) including t	the correction is req	uired if the draw	ing(s) is objected to. See 37 C	FR 1.121(d).				
11)	The oath or declaration is objected to	by the Examiner.	Note the attac	hed Office Action or form P	ГО-152.				
Priority	under 35 U.S.C. § 119								
12)	Acknowledgment is made of a claim for	or foreign priority	under 35 U.S.C	C. § 119(a)-(d) or (f).					
a)	☐ All b)☐ Some * c)☐ None of:								
	1. Certified copies of the priority documents have been received.								
	2. Certified copies of the priority d								
	3. Copies of the certified copies of			en received in this National	Stage				
•	application from the Internation	•		nat rappiyad					
" `	See the attached detailed Office action	for a list of the ce	ertinea copies r	iot received.					
Attachmer	nt(s)								
	ce of References Cited (PTO-892)			ew Summary (PTO-413)					
	ce of Draftsperson's Patent Drawing Review (PT mation Disclosure Statement(s) (PTO-1449 or P			No(s)/Mail Date of Informal Patent Application (PT	O-152)				
. —	er No(s)/Mail Date	,	6) Other:						

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DETAILED ACTION

The Applicant Response dated June 20, 2006 to an Office Action dated January
 24, 2006 has been entered. Claims 1-22 are pending in this application.

Response to Amendment

2. Applicant's arguments with respect to claims 1-22 have been considered but are moot in view of the new ground(s) of rejection. The rejections are necessitated due to claim amendments and addition of new claims.

Claim Objections

3. Claims 1, 2, 6-8, 10, 13, 21-22 are objected to because of the following informalities: These claims recite "service/product" several times. It is not clear if it is meant to be "service and product" or if it is meant to be "service or product".

Appropriate correction is required.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1-2, 4-8, 12-13, 15-17, 19, 21-22 are rejected under 35 U.S.C. 102(b) as being anticipated by Norton (US Patent No. 6,510,411 B1).

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Regarding claim 1, Norton teaches a method of providing a verbal dialog interface for a caller to an automated self-service "How to use" (HTU) call system (providing step by step guided instructions for the service of ordering a product i.e. sandwich, drink, airline flight reservation service), comprising the steps of:

grouping services/products into categories (Fig. 3A, order grouping of sandwich, side and drink; another grouping of sandwich made of turkey pastrami, grilled cheese and tuna salad, col. 7, II. 64-66);

associating one or more topics with each service/product (associating sandwich, drink and side with order service);

storing at least one dialog module for each topic, such that the dialog module can be played as a voice message of instructions to the caller (topics are represented as tasks and subtasks with their individual structure of prompts, responses, help messages representing individual dialog, col. 15, II. 52-col. 17, II. 34), wherein HTU instructions include instructions about how to use a particular service or product (col. 13, II. 1-16, providing instructions on how to use this system service at any specific task (topic). This is a common feature for each task i.e. service or product);

wherein some topics have more two or more dialog modules to be played as a set, different topics having different numbers of dialog modules (col. 8, II. 4-11, topic of sandwich will have multiple dialogs of different types of sandwiches i.e. tuna salad and different types of bread with this type of sandwich; col. 8, II. 60-63, sandwich topic is followed by prompt for asking for side order and available choices of side order played

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as a set; col. 9, II. 10-12, another set of dialog played as a set for sandwich selection topic is drink);

during a call from a caller, prompting the caller to name or describe a service/product or to ask for a list of services/products, and receiving a response from the caller (col. 5, II. 15-32);

in response to the prompting step, recognizing the caller's response such that unsupported services/products are recognized and an appropriate message is played (col. 24, II. 54-56, col. 27, II. 13-23);

in response to the prompting step, if the caller asks for a list of services/products, providing a spoken list of categories and receiving a response from the caller (caller asking for choices col. 10, II. 60; for order will get a list of sandwich, side and drink categories defined by roles for order service);

in response to either the preceding prompting or providing step, determining if a response from the caller is to be disambiguated (col. 3, II. 59-61, col. 27, II. 13-23, col. 30, II. 37-40);

disambiguating the response by determining if the response corresponds to a category having more than one service/product, and if so, providing a list of services/products within that category, prompting the caller for a response, and recognizing the caller's response (provide list of sandwich, side and drink defined by roles for order service category);

based on one or more of the caller's responses, recognizing the caller's selected service/product (caller input is confirmed and recognized, col. 18, II. 31-37);

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providing the caller with a list of topics associated with the selected service/product and recognizing the caller's selected topic (col. 9, II. 5-6, list of side order topics and recognizing selection i.e. 'Good choice!", col. 9, II. 3); and

playing to the caller the HTU instructions in the at least one dialog module stored for the selected topic (col. 19, II. 64-col. 20, II. 15, task independent global message for instructions to use the system at any task (topic) level is standard dialog for any selected task (topic)), such that if the selected topic has two or more associated dialog module to be played as a set (col. 8, II. 4-11, topic of sandwich will have multiple dialogs of different types of sandwiches i.e. tuna salad and different types of bread with this type of sandwich; col. 8, II. 60-63, sandwich topic is followed by prompt for asking for side order and available choices of side order played as a set; col. 9, II. 10-12, another set of dialog played as a set for sandwich selection topic is drink), the caller may request to have the HTU instructions in any selected dialog module in the set repeated (col. 10, II. 58-67, instructions associated with 'order' topic, with a REPEAT option for any topic in 'order' category an be requested for repetition);

wherein each of the above the prompting and providing steps are part of a unique dialog module associated with that step, such that each dialog module has at least one timeout process and at least one retry process (each topic is task or subtask and each has timeout for response and repeating the step, col. 25, II. 8-9, col. 34, II. 7-12).

Regarding claim 2, Norton teaches a method of providing a verbal dialog interface for a caller to an automated self-service "How to use" (HTU) call system

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(providing step by step guided instructions for the service of ordering a product i.e. sandwich, drink, airline flight reservation service), comprising the steps of:

grouping services/products into categories (Fig. 3A, order grouping of sandwich, side and drink; another grouping of sandwich made of turkey pastrami, grilled cheese and tuna salad, col. 7, II. 64-66);

associating one or more topics with each service/product (associating sandwich, drink and side with order service);

storing at least one dialog module for each topic, such that the dialog module can be played as a voice message of instructions to the caller (topics are represented as tasks and subtasks with their individual structure of prompts, responses, help messages representing individual dialog, col. 15, II. 52-col. 17, II. 34), wherein HTU instructions include instructions about how to use a particular service or product (col. 13, II. 1-16, providing instructions on how to use this system service at any specific task (topic). This is a common feature for each task i.e. service or product);

wherein some topics have more two or more dialog modules to be played as a set, different topics having different numbers of dialog modules (col. 8, II. 4-11, topic of sandwich will have multiple dialogs of different types of sandwiches i.e. tuna salad and different types of bread with this type of sandwich; col. 8, II. 60-63, sandwich topic is followed by prompt for asking for side order and available choices of side order played as a set; col. 9, II. 10-12, another set of dialog played as a set for sandwich selection topic is drink);

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during a call from a caller, prompting the caller to select a service/product for which the caller desires HTU instructions, and receiving one or more service/product responses from the caller (col. 5, II. 15-32; col. 8, II. 44-col. 11, II. 24, prompting for sandwich, side order and drink at each response for selected topic further prompting for specific choices for selected topic and getting caller response);

based on one or more of the caller's responses, recognizing the caller's selected service/product (caller input is confirmed and recognized, col. 18, II. 31-37);

providing the caller with a list of topics associated with the selected service/product and recognizing the caller's selected topic (col. 9, II. 5-6, list of side order topics and recognizing selection i.e. 'Good choice!", col. 9, II. 3); and

playing to the caller the HTU instructions in the at least one dialog module stored for the selected topic (col. 19, II. 64-col. 20, II. 15, task independent global message for instructions to use the system at any task (topic) level is standard dialog for any selected task (topic)), such that if the selected topic has two or more associated dialog module to be played as a set (col. 8, II. 4-11, topic of sandwich will have multiple dialogs of different types of sandwiches i.e. tuna salad and different types of bread with this type of sandwich; col. 8, II. 60-63, sandwich topic is followed by prompt for asking for side order and available choices of side order played as a set; col. 9, II. 10-12, another set of dialog played as a set for sandwich selection topic is drink), the caller may request to have the HTU instructions in any selected dialog module in the set repeated (col. 10, II. 58-67, instructions associated with 'order' topic, with a REPEAT option for any topic in 'order' category an be requested for repetition);

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Regarding claim 4, Norton teaches the dialog interface for a telephone call system (col. 5, II. 15-33).

Regarding claim 5, Norton teaches of recognizing with natural language speech recognition techniques (Fig. 1, items 120, 130; col. 5, II. 15-20).

Regarding claim 21, Norton teaches the method, wherein prompting the caller to select a receiving one or more service/product responses from the caller service/product and comprises:

prompting the caller to name or describe a service/product or to request a list of services/products (col. 5, II. 15-32);

if the caller requests a list of services/products, providing a list of categories to the caller (caller asking for choices col. 10, II. 60; for order will get a list of sandwich, side and drink categories defined by roles for order service);

identifying a response from the caller that corresponds to a particular category having more than one service/product (col. 3, II. 59-61, col. 27, II. 13-23, col. 30, II. 37-40); and

disambiguating the identified response, wherein the disambiguating includes providing a list of services/products within the particular category and prompting the caller for a selection (provide list of sandwiches, sides and drinks defined by roles for order service category and receive the selection response).

Regarding claim 6, Norton teaches of timeout for response and reprompting (col. 34, II. 7-12, not replied within some preset amount of time).

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Regarding claim 7, Norton teaches of retry for response and reprompting (col. 34, II. 7-12, reissue the current prompt).

Regarding claim 8, Norton teaches of recognizing unsupported topics and playing an appropriate message (col. 24, II. 54-56, col. 27, II. 13-23).

Regarding claim 12, Norton teaches of having 'help' prompt and recognizing 'help' response for each task or subtask i.e. category or topic and providing corresponding information (col. 20, II. 12-13, col. 10, II. 58-67; col. 14, II. 1-8).

Regarding claim 13, Norton teaches of a system for providing a verbal dialog interface for a caller to an automated self-service call system, comprising:

a module (task) to prompt the caller to name or describe a service/product or to ask for a list of services/products, and for recognizing the caller's response (col. 8, II. 55, "What type of sandwich do you want?");

a module to provide a list of service/product categories to the caller, and to receive and recognize the caller's selection from the list of categories (col. 9, Il. 22-24, prompting with "What kind of bread would you like your grilled cheese sandwich on?" with a filler list of "white", "rye" and "whole wheat");

an Information process (module configured) to provide the caller with a list of topics associated with a selected service/product, and to recognize the caller's selected topic (col. 9, II. 5-6, providing a list of side order topics and recognizing selection i.e. 'Good choice!", col. 9, II. 3);

Information modules for providing the caller with verbal HTU instructions associated with the selected topic, the HTU instructions including instructions for using

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a particular service or product (col. 13, II. 1-16, providing instructions on how to use this system service at any selected task (topic). This is a common feature for each task i.e. service or product); and

wherein at least one topic has more than one associated Information module, different topics having different numbers of Information modules (col. 8, II. 4-11, topic of sandwich will have multiple dialogs of different types of sandwiches i.e. tuna salad and different types of bread with this type of sandwich; col. 8, II. 60-63, sandwich topic is followed by prompt for asking for side order and available choices of side order played as a set; col. 9, II. 10-12, another set of dialog played as a set for sandwich selection topic is drink. Thus sandwich topic will have multiple dialog modules each sandwich type having different set of available breads. Moreover, these sets of dialog modules will be different from those for sides and drinks);

Regarding claim 22, Norton teaches the method, further comprising:

a disambiguation decision process for determining whether the caller has responded with a category having more than one associated service/product (col. 30, II. 37-40);

a disambiguation process for providing a list of services/products, and for recognizing the caller's spoken selection from the list (col. 30, II. 37-40, inherent disambiguator for every task i.e. dialog);

Regarding claim 15, refer to rejection for claim 6 and claim 13.

Regarding claim 16, refer to rejection for claim 7 and claim 13.

Regarding claim 17, refer to rejection for claim 12 and claim 13.

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Regarding claim 19, refer to rejection for claim 8 and claim 13.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 8. Claims 3, 10, 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Norton as applied to claims 2, 13 above, and further in view of Elsey (US Patent Application Publication No. 2002/0055351 A1).

Regarding claim 3, Norton does not teach of prompting for the caller's phone number.

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However, in the same field of endeavor, Elsey teaches of a system prompting the caller to supply the caller's phone number before providing service (paragraph 0060, user supplies necessary identification when ANI is not available).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify Norton to include providing caller's phone number as taught by Elsey in order to charge and bill correctly for the service provided to the caller calling from anywhere in the world when ANI is not available.

Regarding claim 10, Norton does not teach of providing pricing information.

However, in the same field of endeavor, Elsey teaches of a system storing and providing pricing information, which varies with time (paragraph 0038) and further determines caller's phone number stored in the CID data (Paragraph 0076).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify Norton to include providing pricing information and also determine storage of caller's phone number as taught by Elsey in order to enable the caller to make informed decision about the purchase and also to get a return call at a place where the call will be available.

Regarding claim 20, refer to rejection for claim 10 and claim 13.

9. Claims 9, 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Norton as applied to claims 2, 13 above, and further in view of Beyda (US Patent Application Publication No. 2001/0014146 A1).

Regarding claim 9, Norton does not teach of listing topics in order of frequency.

However, in the same field of endeavor, Beyda teaches of keeping track of selection of menu offerings by recording its usage (paragraphs 0028, 0050-0052).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify Norton to include keeping the record of prompt selection according to responses as taught by Beyda so that "user's menu commands are provided in an updated order according to the frequency of use" (Beyda, Paragraph 0028).

Regarding claim 18, refer to rejection for claim 9 and claim 13.

10. Claims 11, 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Norton as applied to claims 2, 13 above, and further in view of Macleod Beck (US Patent Application Publication No. 2001/0025309 A1).

Regarding claim 11, Norton does not teach of taking a survey.

However, in the same field of endeavor, Macleod Beck teaches of taking client survey (paragraph 0114).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify Norton to include taking a client survey as taught by Macleod Beck in order to compile the historical service usage data for future targeted marketing.

Regarding claim 14, Norton teaches of prompting and collecting response from caller. Norton does not teach of taking a survey.

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However, in the same field of endeavor, Macleod Beck teaches of taking client survey after the step of client information collection (paragraph 0114, after steps of collecting telephony options and IPNT options).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify Norton to include taking a client survey after client information collection as taught by Macleod Beck in order to compile the historical usage data for future targeted marketing.

Conclusion

11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US Patent No. 6,456,973

Fado

US Patent No. 6,332,154

Beck

US Patent Application Publication No. 2003/0143981

Kortum

US Patent No. 6,647,111

Biornberg

US Patent No. 6,718,366

Beck

US Patent No. 6,801,899

Lauffer

12. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hemant Patel whose telephone number is 571-272-8620. The examiner can normally be reached on 8:00 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Fan Tsang can be reached on 571-272-7547. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Hemant Patel Examiner Art Unit 2614

HSP HSE tel

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